

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property  
Organization  
International Bureau**



**(43) International Publication Date**  
**14 October 2004 (14.10.2004)**

**PCT**

**(10) International Publication Number**  
**WO 2004/087258 A1**

(51) International Patent Classification<sup>7</sup>: A61N 1/36,  
A61B 5/04

(21) International Application Number: PCT/DK2004/000223

**(22) International Filing Date:** 31 March 2004 (31.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: PA 2003 00500 1 April 2003 (01.04.2003) DK

**(71) Applicant and**

(72) Inventor: JADIDI, Faramarz [DK/DK]; Bavnegårdsvej 57, Kolt, DK-8361 Hasselager (DK).

(74) Agent: PATENTGRUPPEN APS; Arosgaarden,  
Aaboulevarden 31, DK-8000 Aarhus C (DK).

**(81) Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

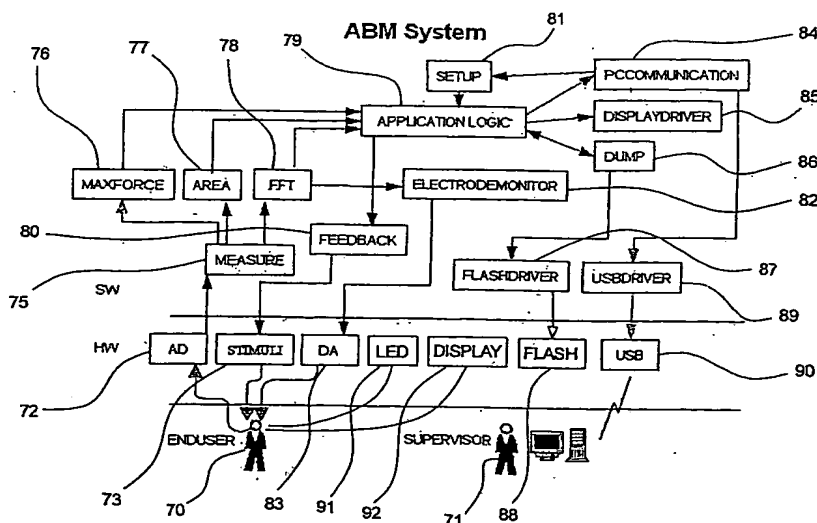
(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: METHOD OF AND APPARATUS FOR MONITORING OF MUSCLE ACTIVITY



(57) Abstract: Apparatus for monitoring muscle activity, said apparatus comprising means for providing signals indicative of muscle activity, for example EMG-signals, means for processing of said signals in order to detect a particular activity and means for providing a feedback signal, wherein said device is designed in order to be individually adaptable in a set-up mode. The apparatus can be used for detecting and prevention of undesired activities such as bruxism, movements that are damaging or unwanted etc. The detection can be performed with great certainty since the individual parameters of the user are utilized for laying down reference values, threshold values, criteria for triggering of feedback signals, etc., which may take place at a set-up procedure.

BEST AVAILABLE COPY

WO 2004/087258 A1